10/634,181

STN - Structure Search 11-22-04

=> d ibib abs hitstr 1-24

L4 ANSWER 1 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:681507 CAPLUS
DOCUMENT NUMBER: 141:207234
TITLE: 3-Amino-4-phenylbutanoic acid derivatives as dipeptidyl peptidase inhibitors for the treatment or prevention of diabetes
INVENTOR(S): Ashton, Wallace T.; Caldwell, Charles G.; Duffy, Joseph L.; Mathvink, Robert J.; Wang, Liping; Weber, Ann E.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA
SOURCE: PCT Int. Appl., 121 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004069162	A2	20040819	WO 2004-US2309	20040127

W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2003-444145P P 20030131
OTHER SOURCE(S): MARPAT 141:207234
GI

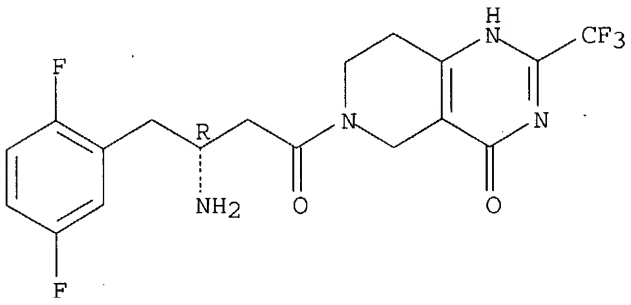
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB Title compds. I [wherein W, X, Y, Z = independently N, CH and derivs.; with the provisos that at least one of W, X, Y, and Z = CH and derivs., and when W = Y = N, then one of X and Z = N; Ar = (un)substituted phenyl; R7, R8, R9 = independently H, CN, (CH2)nCO2H, (un)substituted alkyl, (CH2)n-hetero/aryl, (CH2)n-heterocyclyl, etc.; n = 0-2; and their pharmaceutically acceptable salts] were prepared as inhibitors of the dipeptidyl peptidase-IV (DP-IV)enzyme for treating diabetes, in particular type 2 diabetes. For example, II•TFA was prepared, in 4 steps, from acid III, 7-nitro-1,2,3,4-tetrahydroisoquinoline, benzenesulfonyl chloride and TFA. I displayed IC50 values < 1 μM for the inhibition of DP-IV. Thus, I are useful in the prevention or treatment of diseases in which the dipeptidyl peptidase-IV enzyme is involved, such as type 2 diabetes, obesity, hyperglycemia, and other lipid disorders(no data).

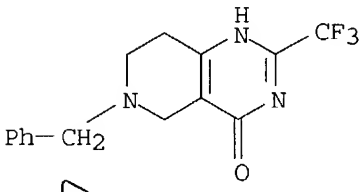
IT **741736-62-9P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(dipeptidyl peptidase-IV inhibitor; preparation of 3-amino-4-phenylbutanoic acid derivs. as dipeptidyl peptidase inhibitors for treating diabetes)

RN 741736-62-9 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 6-[(3R)-3-amino-4-(2,5-difluorophenyl)-1-oxobutyl]-5,6,7,8-tetrahydro-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **741737-21-3P**, 6-Benzyl-2-(trifluoromethyl)-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-4-ol
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of 3-amino-4-phenylbutanoic acid derivs. as dipeptidyl peptidase inhibitors for treating diabetes)
RN 741737-21-3 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(phenylmethyl)-2-(trifluoromethyl)- (9CI) (CA INDEX NAME)

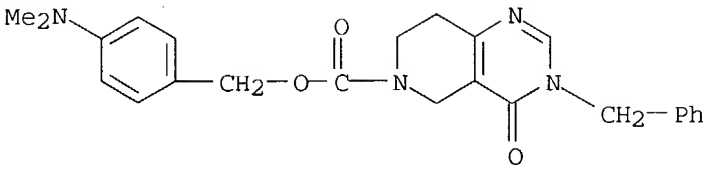


Inventors

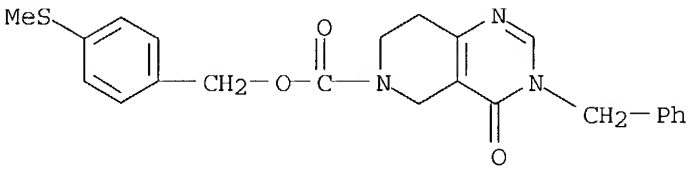
L4 ANSWER 2 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2004:143151 CAPLUS
DOCUMENT NUMBER: 140:175194
TITLE: Fused tetrahydropyridine derivatives as matrix metalloproteinase inhibitors, pharmaceutical compositions, and therapeutic use
INVENTOR(S): Li, Jie Jack
PATENT ASSIGNEE(S): Warner-Lambert Company LLC, USA
SOURCE: PCT Int. Appl., 191 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004014909	A1	20040219	WO 2003-IB3662	20030803

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM,



RN 658038-31-4 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3,5,7,8-tetrahydro-4-oxo-3-(phenylmethyl)-, [4-(methylthio)phenyl]methyl ester (9CI) (CA INDEX NAME)

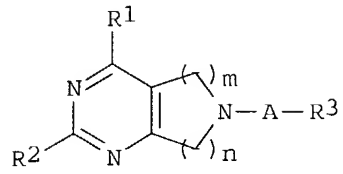


REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:991510 CAPLUS
DOCUMENT NUMBER: 140:42193
TITLE: Preparation of bicyclic pyrimidine derivatives as antiinflammatory agents for treatment of allergic diseases
INVENTOR(S): Arai, Hitoshi; Matsumura, Tsutomu; Ishida, Hiroshi; Yamaura, Yosuke; Aratake, Seiji; Ohshima, Etsuo; Yanagawa, Koji; Miyama, Motoki; Suzuki, Koji; Kawabe, Ari; Nakanishi, Satoshi; Kobayashi, Katsuya; Sato, Takashi; Miki, Ichiro; Ueno, Kimihisa; Fujii, Shinya; Iwase, Miho
PATENT ASSIGNEE(S): Kyowa Hakko Kogyo Co., Ltd., Japan
SOURCE: PCT Int. Appl., 467 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2003104230	A1	20031218	WO 2003-JP7200	20030606
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: JP 2002-166504 A 20020607
OTHER SOURCE(S): MARPAT 140:42193
GI



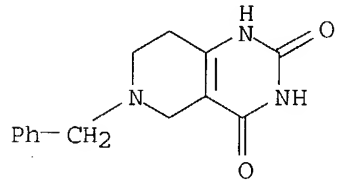
I

AB The title compds. I [wherein m and n = independently 1-3; R1 = (un)substituted amino; R2 = -B-(CX2)p-R7, (un)substituted piperidinyl, piperazinyl, or amino; B = O CH=CH, C.tplbond.C, or phenylene; p = 1-4; X = H, halo, or (un)substituted alkyl; R7 = (un)substituted amino; A = a single bond, CO, SO2, OCO, OCS, SCO, SCS, (un)substituted NHCO, NHCS, or amino; R3 = H, (un)substituted alkyl, cycloalkyl, alkenyl, alkynyl, aralkyl, aryl, heteroaryl, heterocyclyl, heteroarylalkyl, or heterocyclylalkyl, etc.] or quaternary ammonium salts, or pharmaceutically acceptable salts thereof are prepared I have an antiinflammatory effect and an effect of controlling the function(s) of TARC and/or MDC and, therefore, are usable in treating and/or preventing various diseases in which T cells participate, for example, allergic diseases, autoimmune diseases, rejection at transplantation, etc. (no data). Formulations containing I as an active ingredient were also described.

IT **135481-57-1P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of bicyclic pyrimidine derivs. as antiinflammatory agents for treatment of allergic diseases)

RN 135481-57-1 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:77786 CAPLUS

DOCUMENT NUMBER: 134:266271

TITLE: Synthesis and transformations of pyrido[4,3-d]pyrimidines with N-heterocycles moieties

AUTHOR(S): Chowdhury, A. Z. M. Shaifullah; Shibata, Yasuyuki

CORPORATE SOURCE: Environmental Chemistry Division, National Institute for Environmental Studies, Tsukuba, 305-0053, Japan

SOURCE: Heterocycles (2001), 55(1), 115-125
CODEN: HTCYAM; ISSN: 0385-5414

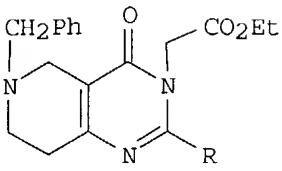
PUBLISHER: Japan Institute of Heterocyclic Chemistry

DOCUMENT TYPE: Journal

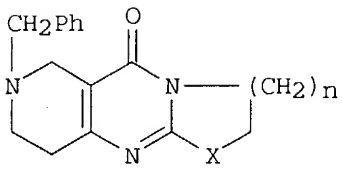
LANGUAGE: English

OTHER SOURCE(S): CASREACT 134:266271

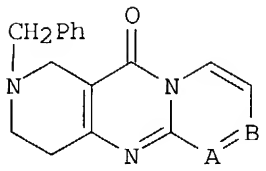
GI



II



III



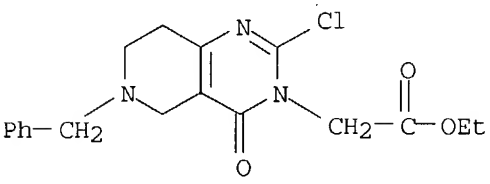
IV

AB Me 4-amino-1-benzyl-1,2,5,6-tetrahydropyridine-3-carboxylate (I) was cyclized to fused pyrimidines (II) (R = SH, SMe) by reacting with isocyanate, isothiocyanate, or dithioketal reagent. II was halogenated, methylated and subsequently displaced by amines, hydrazine, pyrrolidine, and morpholine. I was also converted directly into tricyclic azolopyrido[4,3-d]pyrimidines (III) (X = S, NH; n = 1, 2) and (IV) (A = N, B = CH; A = CH, B = N).

IT **332097-95-7P 332098-05-2P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis and transformations of pyrido[4,3-d]pyrimidines with N-heterocyclic moieties)

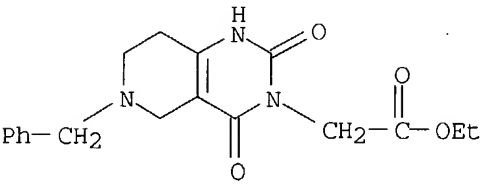
RN 332097-95-7 CAPLUS

CN Pyrido[4,3-d]pyrimidine-3(4H)-acetic acid, 2-chloro-5,6,7,8-tetrahydro-4-oxo-6-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



RN 332098-05-2 CAPLUS

CN Pyrido[4,3-d]pyrimidine-3(2H)-acetic acid, 1,4,5,6,7,8-hexahydro-2,4-dioxo-6-(phenylmethyl)-, ethyl ester (9CI) (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:475943 CAPLUS

DOCUMENT NUMBER: 133:89540

TITLE: Pyridopyrimidinones and benzisothiazole dioxides for use in the prophylaxis and therapy of cerebral ischemia

INVENTOR(S): Steiner, Gerd; Schellhaas, Kurt; Lubisch, Wilfried; Holzenkamp, Uta; Starck, Dorothea; Szabo, Laszlo;

Emling, Franz; Garcia-Ladona, Francisco Javi; Hofmann, Hans-Peter; Unger, Liliane

PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 90 pp.
CODEN: GWXXBX

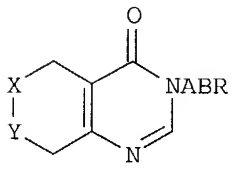
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19900544	A1	20000713	DE 1999-19900544	19990111
CA 2359390	AA	20000720	CA 1999-2359390	19991222
WO 2000041697	A1	20000720	WO 1999-EP10275	19991222
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
EP 1140099	A1	20011010	EP 1999-966990	19991222
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9916888	A	20011120	BR 1999-16888	19991222
TR 200102009	T2	20020121	TR 2001-200102009	19991222
JP 2002534467	T2	20021015	JP 2000-593308	19991222
ZA 2001005473	A	20021003	ZA 2001-5473	20010703
NO 2001003408	A	20010821	NO 2001-3408	20010710
BG 105688	A	20020228	BG 2001-105688	20010710

PRIORITY APPLN. INFO.: DE 1999-19900544 A 19990111
WO 1999-EP10275 W 19991222

OTHER SOURCE(S): MARPAT 133:89540

GI



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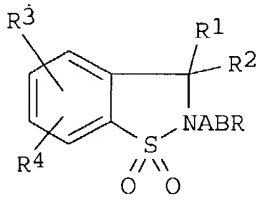
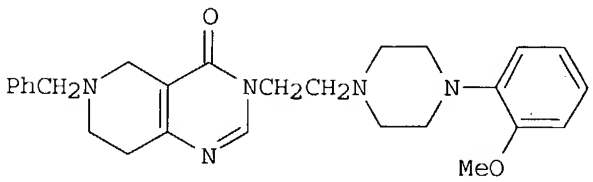
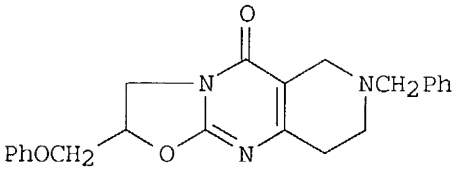


II

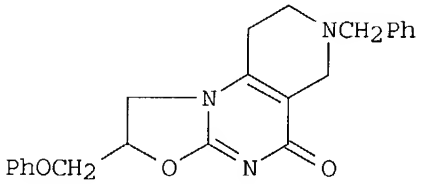


III

ACCESSION NUMBER: 1999:684900 CAPLUS
DOCUMENT NUMBER: 132:49943
TITLE: Reaction between 5-(phenoxymethyl)-2-amino-2-oxazoline and N-benzyl-3-(ethoxycarbonyl)-4-piperidinone hydrochloride: a structural investigation
AUTHOR(S): Forfar, Isabelle; Jarry, Christian; Laguerre, Michel; Leger, Jean-Michel; Pianet, Isabelle
CORPORATE SOURCE: Laboratoire de Chimie Physique et Minerale, Universite Victor Segalen Bordeaux 2 - 146, Bordeaux, 33076, Fr.
SOURCE: Tetrahedron (1999), 55(44), 12819-12828
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 132:49943
GI



I



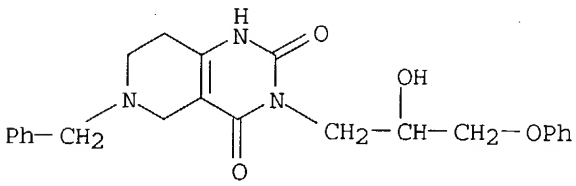
II

AB The title reaction gave oxazolopyridopyrimidinones I and II. Their structures were assigned by comparison of two dimensional NMR spectra (HMBC, NOESY) with the results obtained from theor. calcns. The structure of one related hydrolysis product was established by x-ray crystallog., further confirming the structure assignment.

IT **252911-44-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(isomeric oxazolopyridopyrimidinones by cyclocondensation of (phenoxymethyl)oxazolinamine with oxopiperidinecarboxylate)

RN 252911-44-7 CAPLUS

CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-3-(2-hydroxy-3-phenoxypropyl)-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



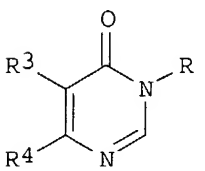
REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:286205 CAPLUS
DOCUMENT NUMBER: 130:311811
TITLE: Preparation of pyridopyrimidinones as serotonin reuptake inhibitors
INVENTOR(S): Lubisch, Wilfried; Dullweber, Uta; Starck, Dorothea; Steiner, Gerd; Bach, Alfred; Emling, Franz; Garcia-Ladona, Francisco Javier; Teschendorf, Hans-Juergen; Wicke, Karsten
PATENT ASSIGNEE(S): BASF A.-G., Germany
SOURCE: Ger. Offen., 38 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 19747063	A1	19990429	DE 1997-19747063	19971024
CA 2305258	AA	19990506	CA 1998-2305258	19981005
WO 9921857	A1	19990506	WO 1998-EP6305	19981005
W: AL, AU, BG, BR, BY, CA, CN, CZ, GE, HR, HU, ID, IL, JP, KR, KZ, LT, LV, MK, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TR, UA, US, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9897484	A1	19990517	AU 1998-97484	19981005
AU 748666	B2	20020606		
BR 9812970	A	20000808	BR 1998-12970	19981005
EP 1025100	A1	20000809	EP 1998-951491	19981005
EP 1025100	B1	20020123		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, PT, IE, SI, FI, RO				
TR 200001102	T2	20000821	TR 2000-200001102	19981005
NZ 503486	A	20010427	NZ 1998-503486	19981005
JP 2001521035	T2	20011106	JP 2000-517967	19981005
AT 212346	E	20020215	AT 1998-951491	19981005
PT 1025100	T	20020731	PT 1998-951491	19981005
ES 2172222	T3	20020916	ES 1998-951491	19981005
TW 432063	B	20010501	TW 1998-87117332	19981020
ZA 9809664	A	20000425	ZA 1998-9664	19981023
MX 200002601	A	20001109	MX 2000-2601	20000315
BG 104291	A	20010531	BG 2000-104291	20000403
US 6414157	B1	20020702	US 2000-529231	20000410
NO 2000001934	A	20000413	NO 2000-1934	20000413

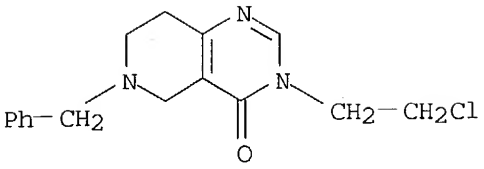
PRIORITY APPLN. INFO.: DE 1997-19747063 A 19971024
WO 1998-EP6305 W 19981005

OTHER SOURCE(S): MARPAT 130:311811
GI

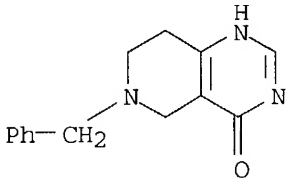


I

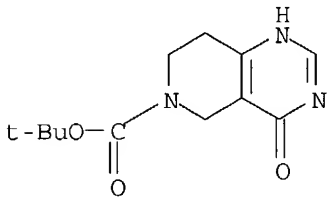
AB Title compds. [I; R = Z1Z2R5; R3R4 = CH2CH2NR1CH2 or CH2NR1CH2CH2; R1 = H,



IT **109229-22-3P 223609-09-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of pyridopyrimidinones as serotonin reuptake inhibitors)
RN 109229-22-3 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



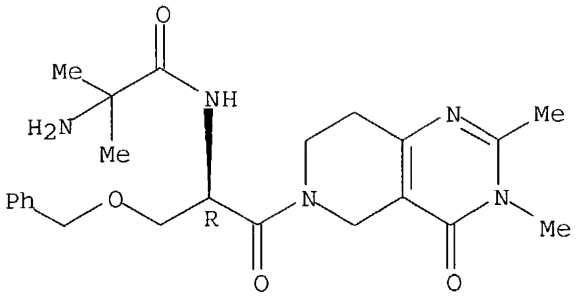
RN 223609-09-4 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1999:27845 CAPLUS
DOCUMENT NUMBER: 130:95849
TITLE: Dipeptide derivatives as growth hormone secretagogues
INVENTOR(S): Carpino, Philip Albert; Griffith, David Andrew; Lefker, Bruce Allen
PATENT ASSIGNEE(S): Pfizer Inc., USA
SOURCE: PCT Int. Appl., 246 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

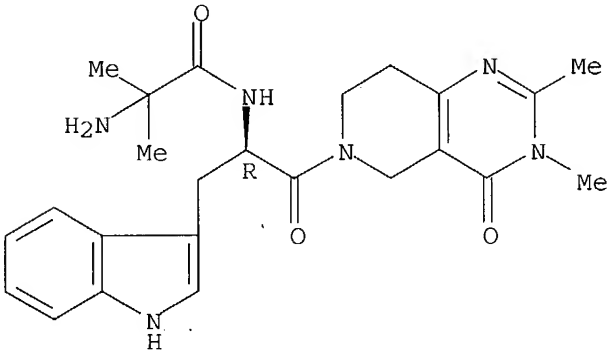
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9858947	A1	19981230	WO 1998-IB873	19980605

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,



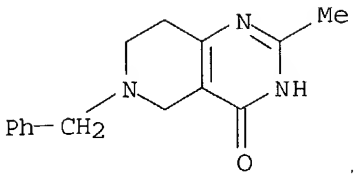
RN 218951-79-2 CAPLUS
CN Propanamide, 2-amino-N-[(1R)-1-(1H-indol-3-ylmethyl)-2-oxo-2-(3,5,7,8-tetrahydro-2,3-dimethyl-4-oxopyrido[4,3-d]pyrimidin-6(4H)-yl)ethyl]-2-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1998:792127 CAPLUS
DOCUMENT NUMBER: 130:81147
TITLE: Electron impact mass spectrometric studies of 2-methyl, 2-phenyl, 2-(1-piperidyl), and 2-(2/3/4-pyridyl) piperidino- and pyrido[4,3-d]pyrimidin-4-ones
AUTHOR(S): Oksman, Pentti; Pihlaja, Kalevi; Fulop, Ferenc; Huber, Imre; Bernath, Gabor; Karelson, Mati; Perkson, Antti
CORPORATE SOURCE: Department of Chemistry, University of Turku, Turku, FIN-20014, Finland
SOURCE: Rapid Communications in Mass Spectrometry (1998), 12(23), 1845-1858
CODEN: RCMSEF; ISSN: 0951-4198
PUBLISHER: John Wiley & Sons Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

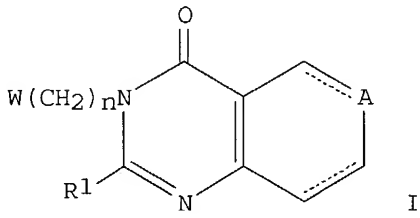


REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

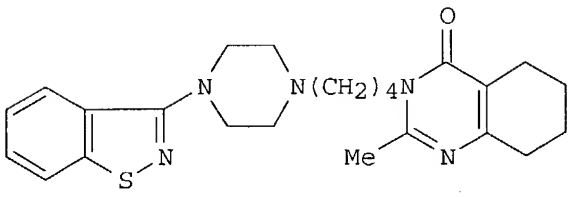
L4 ANSWER 10 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1996:294880 CAPLUS
DOCUMENT NUMBER: 124:343322
TITLE: Preparation of quinazolinone derivatives as antipsychotics with weak extrapyramidal effects
INVENTOR(S): Fukuda, Yoshimasa; Nakatani, Juko; Hasegawa, Toshibumi; Myashiro, Mio; Yamashita, Noryuki
PATENT ASSIGNEE(S): Meiji Seika Co, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08027149	A2	19960130	JP 1994-157624	19940708
PRIORITY APPLN. INFO.:			JP 1994-157624	19940708

OTHER SOURCE(S): MARPAT 124:343322
GI



I



II

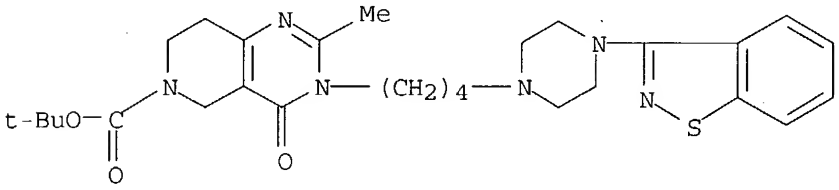
AB The title compds. I [n = 1 - 5; R1 = H, methyl; dotted line indicates single or double bond; A = CH2, NR3 (R3 = H, etc.), CH, N; W = heterocyclic moiety (structures given)] are prepared In a test for antipsychotic effect using mice, the title compound II (preparation given) showed ED50 of 0.38 mg/Kg i.p., vs. ED50 of 0.16 mg/Kg i.p for haloperidol, and ED50 of 1.05 mg/Kg i.p for chlorpromazine. In a test for cataleptogenic effects using mice, II showed ED50 of 38.4 mg/Kg i.p., vs. ED50 of 1.3

mg/Kg i.p for haloperidol, and ED50 of 6.2 mg/Kg i.p for chlorpromazine.

IT **176493-86-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of quinazolinone derivs. as antipsychotics with weak extrapyramidal effects)

RN 176493-86-0 CAPLUS

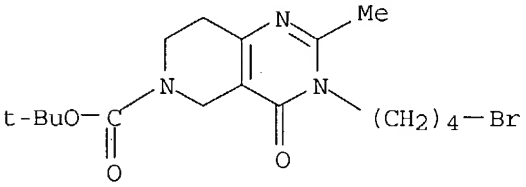
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3-[4-[4-(1,2-benzisothiazol-3-yl)-1-piperazinyl]butyl]-3,5,7,8-tetrahydro-2-methyl-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



IT **176493-89-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of quinazolinone derivs. as antipsychotics with weak extrapyramidal effects)

RN 176493-89-3 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 3-(4-bromobutyl)-3,5,7,8-tetrahydro-2-methyl-4-oxo-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L4 ANSWER 11 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1995:300856 CAPLUS

DOCUMENT NUMBER: 122:133110

TITLE: Conversion of 1-benzyl-4-aminotetrahydropyridine-3-carboxylic acid methyl ester to antithrombotic pyrido[4,3-d]pyrimidine-2,4-diones and to (2-oxotetrahydropyrimidin-4-ylidene)acetic acid methyl esters

AUTHOR(S): Furrer, H.; Fehlbaber, H. W.; Wagner, R.

CORPORATE SOURCE: Med. Chem., Hoechst AG Werk Kalle-Albert, Wiesbaden, D-65174, Germany

SOURCE: Journal of Heterocyclic Chemistry (1994), 31(6), 1569-75
CODEN: JHTCAD; ISSN: 0022-152X

PUBLISHER: HeteroCorporation

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 122:133110

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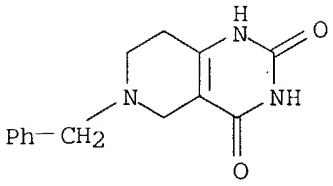
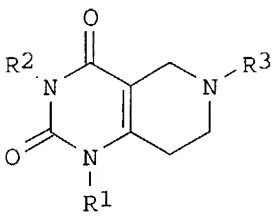


● HCl

L4 ANSWER 12 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1995:248596 CAPLUS
DOCUMENT NUMBER: 122:23846
TITLE: Pyridopyrimidinediones, their preparation and use for treatment of circulatory and neurodegenerative disorders
INVENTOR(S): Furrer, Harald; Seiffge, Dirk; Okyayuz-Baklouti, Ismahan; Grome, John Joseph
PATENT ASSIGNEE(S): Hoechst A.-G., Germany
SOURCE: Eur. Pat. Appl., 41 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

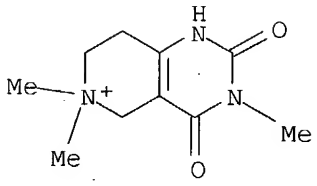
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 621037	A1	19941026	EP 1994-105958	19940418
EP 621037	B1	19990707		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, NL, PT, SE				
AT 181832	E	19990715	AT 1994-105958	19940418
ES 2134284	T3	19991001	ES 1994-105958	19940418
US 5556854	A	19960917	US 1994-230811	19940421
JP 06321944	A2	19941122	JP 1994-106305	19940422
JP 3483160	B2	20040106		
PRIORITY APPLN. INFO.:			DE 1993-4313317 A	19930423
OTHER SOURCE(S):	MARPAT 122:23846			

GI



I

AB Pyridopyrimidinediones [I; R1 = R2, (substituted) alkenyl; R2 = H, alkyl, (substituted) benzyl; R3 = R1, cyclohexylmethyl, heterocyclylmethyl, carboxyalkyl, etc.] are prepared for use in treatment of circulatory and neurodegenerative disorders. Thus, I-HCl (R1 = R3 = H, R2 = Me) showed 33% inhibition of laser-induced thrombosis in rats at 10 mg orally.



● I^-

L4 ANSWER 13 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:448598 CAPLUS
DOCUMENT NUMBER: 117:48598
TITLE: Preparation of heterocyclic compounds as psychotropic agents
INVENTOR(S): Imuda, Junichi; Furuya, Yoshiro; Ishitoku, Takeshi; Mizuchi, Akira; Horigome, Kazutoshi; Awaya, Akira
PATENT ASSIGNEE(S): Mitsui Sekiyu Kagaku Kogyo K. K., Japan; Mitsui Seiyaku Kogyo K. K.
SOURCE: Jpn. Kokai Tokkyo Koho, 26 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 04054181	A2	19920221	JP 1990-162676	19900622
JP 3036789	B2	20000424		
PRIORITY APPLN. INFO.:			JP 1990-162676	19900622

OTHER SOURCE(S): MARPAT 117:48598
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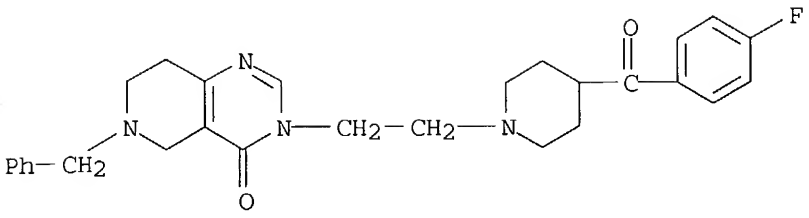
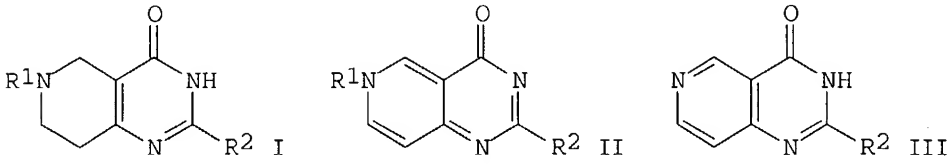


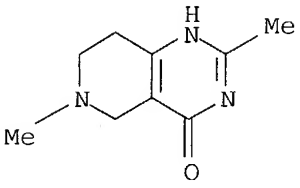
L4 ANSWER 14 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1992:151704 CAPLUS
DOCUMENT NUMBER: 116:151704
TITLE: Saturated heterocycles. 184. Dehydrogenation of 6-azaquinazoline derivatives. Formation of unexpected quinonediimine intermediates
AUTHOR(S): Huber, Imre; Fulop, Ferenc; Lazar, Janos; Bernath, Gabor; Toth, Gabor
CORPORATE SOURCE: Inst. Pharm. Chem., Albert Szent-Gyorgyi Med. Univ., Szeged, H-6701, Hung.
SOURCE: Journal of the Chemical Society, Perkin Transactions 1: Organic and Bio-Organic Chemistry (1972-1999) (1992), (1), 157-61
CODEN: JCPRB4; ISSN: 0300-922X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 116:151704
GI



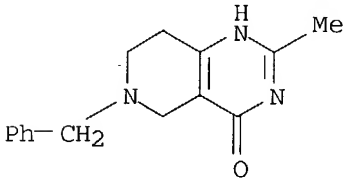
AB 2,6-Disubstituted 5,6,7,8-tetrahydropyrido[4,3-d]pyrimidin-4(3H)-one (6-azaquinazoline) derivs. I (R1 = PhCH2, R2 = Ph, 4-pyridyl, Me; R1 = Me, R2 = Ph, Me) were synthesized from N-substituted 3-(methoxycarbonyl)-4-piperidones and amidines R2C(:NH)NH2. Compds. I and their debenzylated derivs. underwent dehydrogenation in xylene or in PhNO2 in the presence of a Pd-C catalyst, to give products II (R1 = PhCH2, R2 = Ph, 4-pyridyl; R1 = Me, R2 = Ph) and III (R2 = Ph, 4-pyridyl, Me), resp. It was found that the formation of the two types of products, II or III, from the same mols. depends on the substituents at positions 2 and 6, and on the inert or oxidative character of the solvent used. The quinonediimine forms II can be considered to be intermediates of the transformation I to III.

IT **1078-16-6P 1448-40-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and dehydrogenation of)

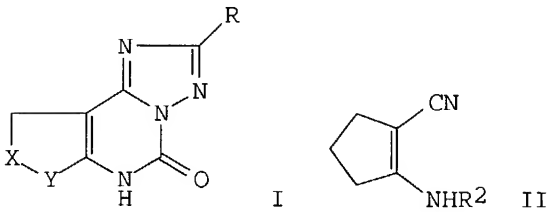
RN 1078-16-6 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2,6-dimethyl- (9CI) (CA INDEX NAME)



RN 1448-40-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

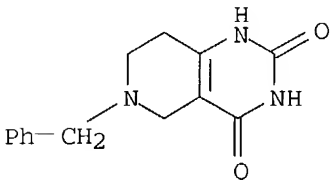


L4 ANSWER 15 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:536038 CAPLUS
DOCUMENT NUMBER: 115:136038
TITLE: Anxiolytic properties of certain annelated [1,2,4]triazolo[1,5-c]pyrimidin-5(6H)-ones
AUTHOR(S): Francis, John E.; Bennett, Debra A.; Hyun, James L.; Rovinski, Stephen L.; Amrick, Caryl L.; Loo, Patricia S.; Murphy, Deborah; Neale, Robert F.; Wilson, Douglas E.
CORPORATE SOURCE: Pharm. Div., Ciba-Geigy Corp., Summit, NJ, 07901, USA
SOURCE: Journal of Medicinal Chemistry (1991), 34(9), 2899-906
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English
GI

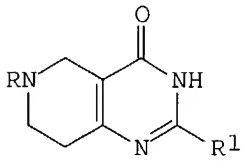


AB Title compds. I [R = Ph, 3-FC6H4, 2-ClC6H4, 4-FC6H4, 4-ClC6H4, 2-pyrrolyl, 2-pyridyl, XY = (CH2)n, n = 2-4; XY = N(CH2Ph)CHMe, NHCH2CH2, NPhCH2, NR1CH2CH2, R1 = 2-pyridylmethyl, 3-pyridylmethyl, COCH2Ph, etc.] were prepared and their anxiolytic properties were examined Thus, aminocyanocyclopentene II (R2 = H) reacted with (EtO)2CO to give II (R2 = CO2Et) (III). III cyclocondensed with 2-fluorobenzhydrazide to give I (R = 2-FC6H4, XY = CH2CH2). The degree of anxiolytic activity was strongly dependent on the N-substituent in the 9-position.

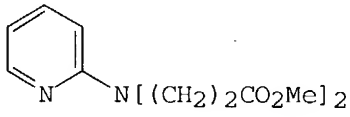
IT **135481-57-1P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 135481-57-1 CAPLUS
CN Pyrido[4,3-d]pyrimidine-2,4(1H,3H)-dione, 5,6,7,8-tetrahydro-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



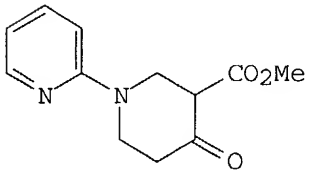
L4 ANSWER 16 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1991:408706 CAPLUS
DOCUMENT NUMBER: 115:8706
TITLE: Saturated heterocycles. Part 172. Synthesis of 2,6-disubstituted 5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine derivatives
AUTHOR(S): Lazar, Janos; Bernath, Gabor
CORPORATE SOURCE: Inst. Pharm. Chem., Albert Szent-Gyorgyi Med. Univ., Szeged, H-6701, Hung.
SOURCE: Journal of Heterocyclic Chemistry (1990), 27(7), 1885-92
CODEN: JHTCAD; ISSN: 0022-152X
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 115:8706
GI



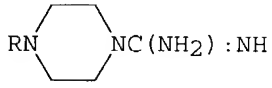
I



II



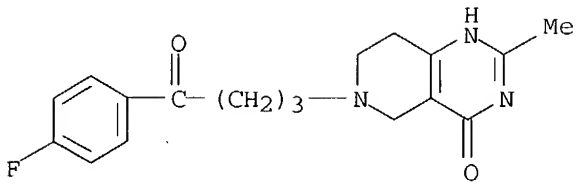
III



IV

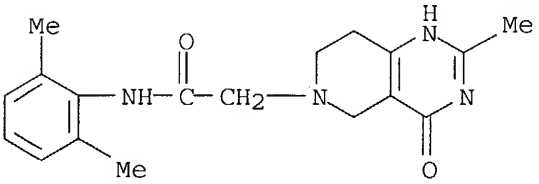
AB The title compds. (I; R = H, alkyl, substituted Ph, aroyl, pyridyl; R1 = Me, Ph, azolyl) were synthesized via the addition of CH2:CHCO2Me to PhCH2NH2 or to α-aminopyridine, which gave the corresponding diesters, e.g., (II), followed by Dieckmann condensation of the latter to yield the keto esters, e.g., (III), which were condensed with RC(NH2):NH or guanidines (IV). Subsequent derivatizations gave a number of products with potential biol. action; some of them showed analgesic and antiinflammatory effects (no data).

IT **1448-40-4P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT



● 2 HCl

RN 134201-07-3 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-acetamide, N-(2,6-dimethylphenyl)-1,5,7,8-tetrahydro-2-methyl-4-oxo-, dihydrochloride (9CI) (CA INDEX NAME)

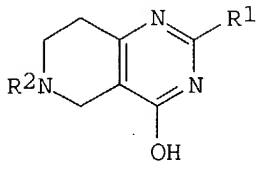


● 2 HCl

L4 ANSWER 17 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:212843 CAPLUS
Correction of: 1987:439856
DOCUMENT NUMBER: 110:212843
Correction of: 107:39856
TITLE: Preparation of tetrahydropyrido[4,3-d]pyrimidin-4-ols as central nervous system agents
INVENTOR(S): Kretzschmar, Egon; Meisel, Peter
PATENT ASSIGNEE(S): VEB Arzneimittelwerk, Ger. Dem. Rep.
SOURCE: Ger. (East), 12 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 241257	A1	19861203	DD 1985-281047	19850926

PRIORITY APPLN. INFO.: DD 1985-281047 19850926
OTHER SOURCE(S): CASREACT 110:212843
GI



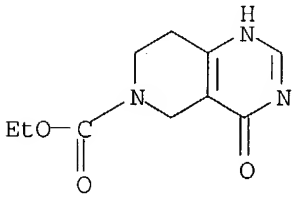
I

AB Title compds I [R1 = C1-5 alkyl, aryl, aralkyl; R2 = 4-FC6H4CO(CH2)3, (4-FC6H4)2CH(CH2)3, PhCH:CHCH2] were prepared in several steps from I (R2 = PhCH2) as anticonvulsants, sedatives, and tranquilizers (no data). I [R1 = Me2CHCH2 (throughout), R2 = PhCH2] was refluxed in PhMe with ClCO2Et to give 34% I.HCl (R2 = CO2Et). This was refluxed in concentrated HCl to give I.2HCl (R2 = H), which was refluxed with (4-FC6H4)2CH(CH2)3Cl in MeCOEt containing Na2CO3 and catalytic NaI to give 46% I [R1 = Me2CHCH2, R2 = (4-FC6H4)2CH(CH2)3].

IT **109229-14-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deethoxycarbonylation of)

RN 109229-14-3 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

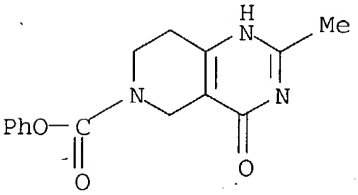


● HCl

IT **109229-15-4P 109229-16-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and saponification-decarboxylation of)

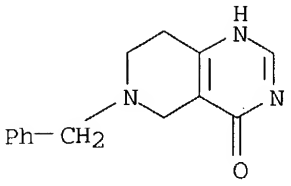
RN 109229-15-4 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-methyl-4-oxo-, phenyl ester (9CI) (CA INDEX NAME)

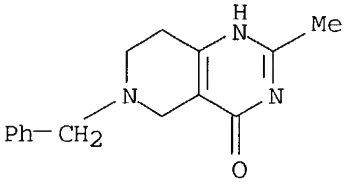


RN 109229-16-5 CAPLUS

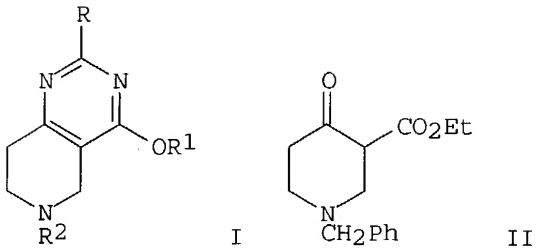
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-methyl-4-oxo-, 1-methylethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



IT **1448-40-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroformates)
RN 1448-40-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



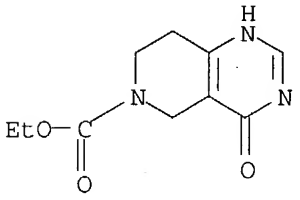
L4 ANSWER 18 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1989:114783 CAPLUS
DOCUMENT NUMBER: 110:114783
TITLE: Synthesis of 2,6-disubstituted 4-hydroxy-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidines
AUTHOR(S): Kretzschmar, E.; Meisel, P.
CORPORATE SOURCE: Direktionsber. Forsch. Entwickl., VEB Pharm. Komb. GERMED, Dresden, Ger. Dem. Rep.
SOURCE: Pharmazie (1988), 43(7), 475-6
CODEN: PHARAT; ISSN: 0031-7144
DOCUMENT TYPE: Journal
LANGUAGE: German
OTHER SOURCE(S): CASREACT 110:114783
GI



I II

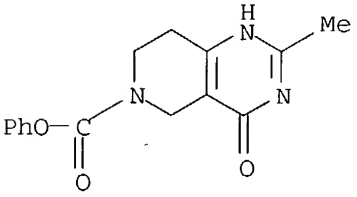
AB Pyridopyrimidines I [R = cyclohexyl, CH2CH2CHMe2, Me, CH2Ph, H, Ph, Et; R1 = H, Bu; R2 = CH2Ph, CO2Et, CO2CHMe2, CO2Ph, H, (CH2)3COC6H4F-4, (CH2)3CH(C6H4F-4)2] were prepared from the piperidinone II and HN:CRNH2.HCl followed by substitution of I (R2 = CH2Ph). I have no pharmacol activity.

IT **109229-14-3P 109229-15-4P 109229-16-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and decarboxylation of)
RN 109229-14-3 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

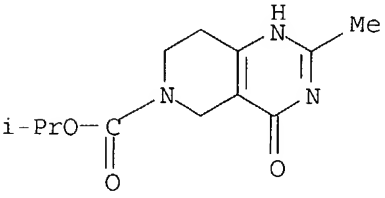


● HCl

RN 109229-15-4 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-methyl-4-oxo-, phenyl ester (9CI) (CA INDEX NAME)



RN 109229-16-5 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-methyl-4-oxo-, 1-methylethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



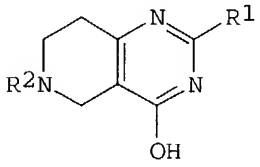
● HCl

IT **1448-40-4P 109229-22-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction of, with chloroformate)
RN 1448-40-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

DOCUMENT NUMBER: 107:39856
TITLE: Preparation of tetrahydropyrido[4,3-d]pyrimidin-4-ols as central nervous system agents
INVENTOR(S): Kretzschmar, Egon; Meisel, Peter
PATENT ASSIGNEE(S): VEB Arzneimittelwerk, Ger. Dem. Rep.
SOURCE: Ger. (East), 12 pp.
CODEN: GEXXA8
DOCUMENT TYPE: Patent
LANGUAGE: German
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DD 241257 A1		19861203	DD 1985-281047	19850926

GI



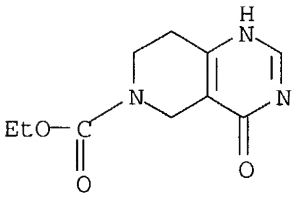
I

AB The title compds. [I; R1 = C1-5 alkyl, aryl, aralkyl; R2 = 4-FC6H4CO(CH2)3, (4-FC6H4)2CH(CH2)3, PhCH:CHCH2] were prepared in several steps from I (R2 = PhCH2) as anticonvulsants, sedatives, and tranquilizers (no data). I [R1 = Me2CHCH2 (throughout), R2 = PhCH2] was refluxed in PhMe with ClCO2Et to give 34% I.HCl (R2 = CO2Et). This was refluxed in concentrated HCl to give I.2HCl (R2 = H) which was refluxed with (4-FC6H4)2CH(CH2)3Cl in MeCOEt containing Na2CO3 and catalytic KI to give 46% I [R1 = Me2CHCH2, R2 = (4-FC6H4)2CH(CH2)3].

IT **109229-14-3P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and deethoxycarbonylation of)

RN 109229-14-3 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-4-oxo-, ethyl ester, monohydrochloride (9CI) (CA INDEX NAME)



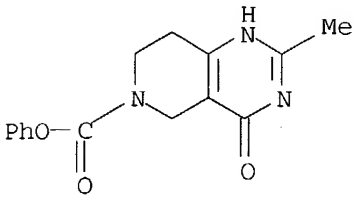
● HCl

IT **109229-15-4P 109229-16-5P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and saponification-decarboxylation of)

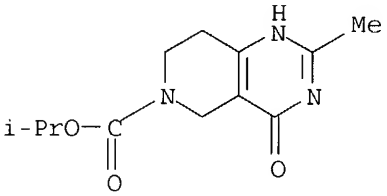
RN 109229-15-4 CAPLUS

CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-methyl-

4-oxo-, phenyl ester (9CI) (CA INDEX NAME)

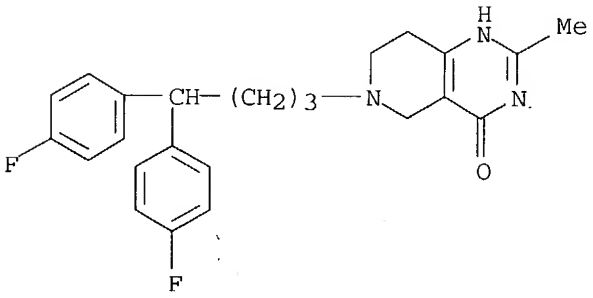


RN 109229-16-5 CAPLUS
CN Pyrido[4,3-d]pyrimidine-6(4H)-carboxylic acid, 1,5,7,8-tetrahydro-2-methyl-4-oxo-, 1-methylethyl ester, monohydrochloride (9CI) (CA INDEX NAME)

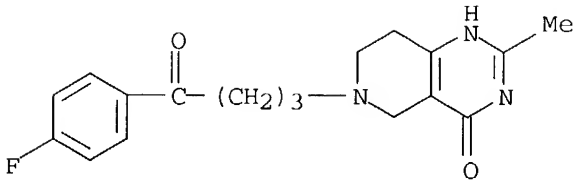


● HCl

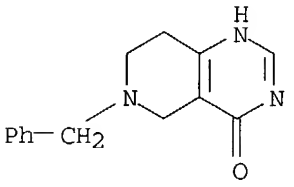
IT **109228-99-1P 109229-02-9P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of, as central nervous system agent)
RN 109228-99-1 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 6-[4,4-bis(4-fluorophenyl)butyl]-5,6,7,8-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



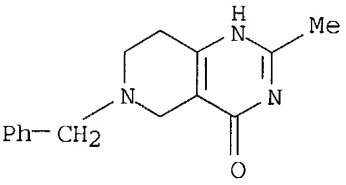
RN 109229-02-9 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 6-[4-(4-fluorophenyl)-4-oxobutyl]-5,6,7,8-tetrahydro-2-methyl- (9CI) (CA INDEX NAME)



IT **109229-22-3**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with Et chloroformate)
RN 109229-22-3 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-6-(phenylmethyl)-(9CI) (CA INDEX NAME)

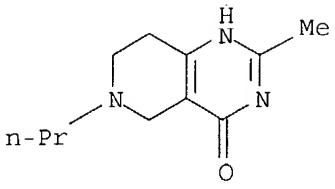


IT **1448-40-4**
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of, with chloroformates)
RN 1448-40-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)

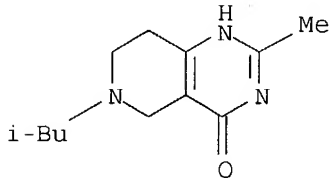


L4 ANSWER 20 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1967:473618 CAPLUS
DOCUMENT NUMBER: 67:73618
TITLE: 4-Hydroxy-5,6,7,8-tetrahydropyrido[4,3-d]pyrimidine substitution products
INVENTOR(S): Ohnacker, Gerhard
PATENT ASSIGNEE(S): Boehringer Ingelheim G.m.b.H.
SOURCE: U.S., 14 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

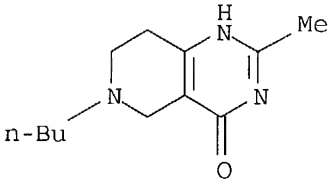
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3306901		19670228		



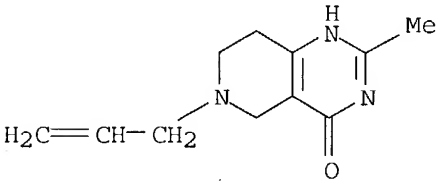
RN 1082-82-2 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-isobutyl-2-methyl- (7CI, 8CI) (CA INDEX NAME)



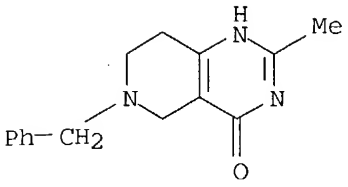
RN 1442-27-9 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 6-butyl-5,6,7,8-tetrahydro-2-methyl- (7CI, 8CI) (CA INDEX NAME)



RN 1778-61-6 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 6-allyl-5,6,7,8-tetrahydro-2-methyl- (7CI, 8CI) (CA INDEX NAME)



L4 ANSWER 21 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1966:27616 CAPLUS
DOCUMENT NUMBER: 64:27616
ORIGINAL REFERENCE NO.: 64:5111e-h,5112a-d
TITLE: 5,6,7,8 - Tetrahydropyrido[4,3 - d]pyrimidines
PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.
SOURCE: 13 pp.
DOCUMENT TYPE: Patent



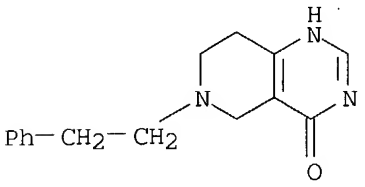
L4 ANSWER 22 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1965:424196 CAPLUS
DOCUMENT NUMBER: 63:24196
ORIGINAL REFERENCE NO.: 63:4312c-h,4313a
TITLE: 5,6,7,8 - Tetrahydropyrido[4,3 - d]pyrimidines
INVENTOR(S): Ohnacker, Gerhard
PATENT ASSIGNEE(S): Boehringer Ingelheim G.m.b.H.
SOURCE: 14 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 3186991		19650601	US	
PRIORITY APPLN. INFO.:			DE	19620322

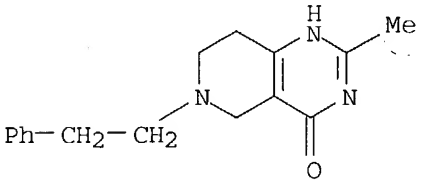
GI For diagram(s), see printed CA Issue.

AB The following piperidonecarboxylic acid alkyl esters (I) were prepared by means of the Dieckmann reaction from iminodipropionic acid alkyl esters and NaNH2 or metallic Na (R and m.p. of hydrochloride given): Ph, 146°; PhCH2 (Ia), 182°; PhCH2CH2, 166°; Me2NCH2CH2, 200°; Me2N(CH2)3, 186°; Et2NCH2CH2, 174°; Et2N(CH2)3, 154°. Also prepared was II.HCl, m. 194°. Tetrahydropyridopyrimidines (III) were prepared as follows. A solution of 29.7 g. Ia, 9.5 g. MeC(NH2):NH, and 27.6 g. K2CO3 in 150 ml. H2O was stirred at 50° for 5 hrs. and 25° for 15 hrs. to yield 9.6 g. III (R = PhCH2, R1 = Me), m. 195-7° (EtOH). The following III were similarly prepared from the appropriate carboxylic acid ethyl ester dihydrochloride and amidine (R, R1, and m.p. given): Me2N(CH2)3, CH2Ph, 135°; PhCH2, Ph, 245°; Me2NCH2CH2, Ph, 172-4°; Et2N(CH2)3, Ph, 117°; PhCH2, NH2, 269-70°; PhCH2, morpholino (Q), 240°; Ph, Q, 260-1°; PhCH2, SMe, 211-12°; PhCH2CH2, SEt, 203-4°; Me2NCH2CH2, SCH2Ph, 168-9°; PhCH2, NHPh, 249-51°; Et2NCH2CH2, piperidino (Y), 106-7°; Ph, Ph, 302-4°; MeO(CH2)3, Ph, 143°; Ph, Me, 234-5°; cyclohexyl, SMe, 253°; Me2NCH2CH2, SMe, 180°; Me2N(CH2)3, SMe, 139°; Et2NCH2CH2, SMe, 178-9°; Et2N(CH2)3, SMe, 126-7°; Et2NCH2CH2, SCH2Ph, 135-6°; Me2N(CH2)3, SCH2Ph, 151°; PhCH2, CH2Ph, 227-8°; Ph, Y, 261-2°; Me2NCH2CH2, Me, 107-8°; Me2NCH2CH2, PhCH2, 171-2°; Me2N(CH2)3, Ph, - (dioxalate m. 223-5°); Et2NCH2CH2, Ph, 141-2°; Et2NCH2CH2, CH2Ph, 136-8°; Et2N(CH2)2, CH2Ph, 106-8°; Ph, Q, 260-1°; PhCH2, NH(CH2)3OMe, 162-3°; PhCH2, NBu2, 104°; PhCH2CH2, Bu, 161-2°; PhCH2, pyrrolidino(Z), 233-5°; PhCH2, Y, 220-2°; PhCH2, cyclohexylamino, 95-6°; PhCH2, NMeCH2Ph, 181-2°; PhCH2CH2, Q, 226°; PhCH2CH2, 4-methylpiperazino (X), 177-8°; cyclohexyl, Q, 231-3°; cyclohexyl, X, 213-15°; Me2N(CH2)3, Z, 143°; Me2N(CH2)3, Y, 142°; Et2N(CH2)2, Z, 134-5°;

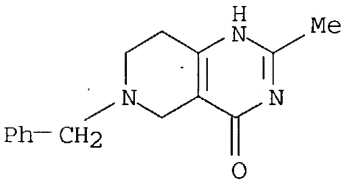
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)



RN 1033-38-1 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-2-methyl-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)



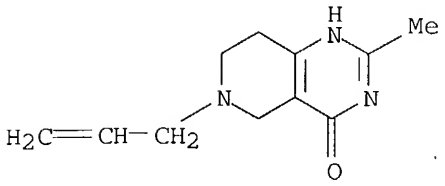
RN 1448-40-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



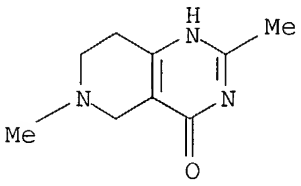
L4 ANSWER 23 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1965:51722 CAPLUS
DOCUMENT NUMBER: 62:51722
ORIGINAL REFERENCE NO.: 62:9150b-h
TITLE: 5,6,7,8 - Tetrahydropyrido[4,3 -d]pyrimidines
PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.
SOURCE: 16 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR M2928		19641214	FR	
GB 1033383			GB	
PRIORITY APPLN. INFO.:			DE	19620322

GI For diagram(s), see printed CA Issue.
AB Alkyl 4-piperidone-3-carboxylates are treated with an amidine of the general formula RC(:NH)NH2, where R is an alkyl, alkylthio, or amino



RN 96654-04-5 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-2,6,?-trimethyl- (7CI) (CA INDEX NAME)



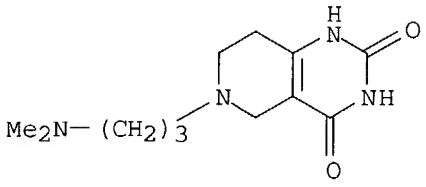
D1—Me

L4 ANSWER 24 OF 24 CAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1965:36868 CAPLUS
DOCUMENT NUMBER: 62:36868
ORIGINAL REFERENCE NO.: 62:6493b-g
TITLE: 5,6,7,8-Tetrahydropyrido[4,3-d]pyrimidines
PATENT ASSIGNEE(S): Dr. Karl Thomae G.m.b.H.
SOURCE: 18 pp.
DOCUMENT TYPE: Patent
LANGUAGE: Unavailable
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

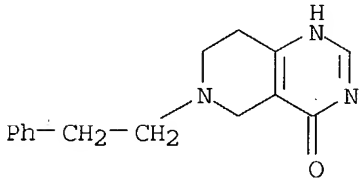
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR M2798		19641019	FR	
BE 642910			BE	
GB 1028405			GB	
PRIORITY APPLN. INFO.:			DE	19620322

AB The title compds. (I) were prepared by alkaline condensation of an amidine with a substituted 3-carbethoxy-4-piperidone. Thus, a solution of 29.7 g. Et N-benzyl-4-piperidone-3-carboxylate-HCl, 9.5 g. acetamidine-HCl, and 27.6 g. K2CO3 in 50 ml. H2O was stirred 5 hrs. at 50° and 15 hrs. at 25° to give 9.6 g. I (R = H, R1 = PhCH2, R2 = Me) (Ia), m. 195-7° (EtOH). The tabulated I were prepared in a similar manner. Similarly were prepared the 4-Me analogs of Ia, m. 177-8°, of II, m. 194-5°, and of III, m. 128-9°. I had antiinflammatory, antipyretic, diuretic, bacteriostatic, sedative, and coronary dilatory activity. R, R1, R2, m.p., R, R1, R2, m.p.; H, Me2N(CH2)3, PhCH2, 135°, H, PhCH2, Ph (II), 245°; H, Me2N(CH2)2, Ph, 172-4°, H, Et2N(CH2)3, Ph, 117°; H, PhCH2, NH2, 269-70°, H, PhCH2, Q, 240°; H, Ph, Q, 260-1°, H, PhCH2, MeS, 211-12°; 8-Me, PhCH2, EtS, 156-7°, H, Ph(CH2)2, EtS, 203-4°; H, Me2N(CH2)2, PhCH2S, 168-9°, H, PhCH2, PhNH, 249-51°; H, Et2N(CH2)2, Z, 106-7°, H, Ph, Ph,

RN 1026-37-5 CAPLUS
CN Pyrido[4,3-d]pyrimidine-2,4-diol, 6-[3-(dimethylamino)propyl]-5,6,7,8-tetrahydro- (8CI) (CA INDEX NAME)



RN 1029-53-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4-ol, 5,6,7,8-tetrahydro-6-phenethyl- (7CI, 8CI) (CA INDEX NAME)



RN 1033-38-1 CAPLUS
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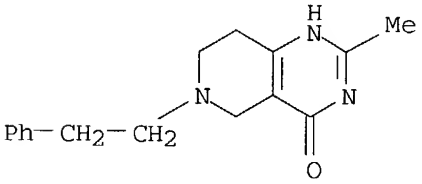
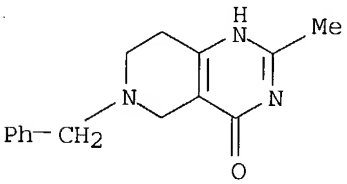


RN 1448-40-4 CAPLUS
CN Pyrido[4,3-d]pyrimidin-4(1H)-one, 5,6,7,8-tetrahydro-2-methyl-6-(phenylmethyl)- (9CI) (CA INDEX NAME)



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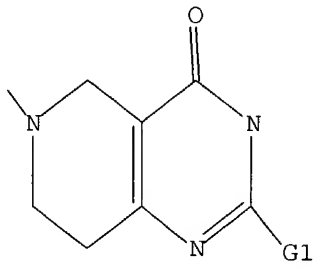

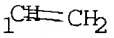

G1 H,X,Me,CF3,OH,MeO,CN,[@1]

Structure attributes must be viewed using STN Express query preparation.

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Day : Monday
Date: 11/22/2004
Time: 15:27:03

Inventor Name Search Result

Your Search was:

Last Name = LI
First Name = JIE

Application#	Patent#	Status	Date Filed	Title	Inventor Name 51
60526007	Not Issued	020	12/02/2003	BULK SORTING OF DESICCATION-TOLERANT CONIFER SOMATIC EMBRYOS	LIU, JIE
60515256	Not Issued	159	10/29/2003	DELIVERY OF IMMUNE RESPONSE MODIFIER COMPOUNDS USING METAL-CONTAINING PARTICULATE SUPPORT MATERIALS	LIU, JIE J.
60507913	Not Issued	159	09/30/2003	STRUCTURE OF THE HIV TRIMERIZATION DOMAIN AND ITS USE FOR DEVELOPING INHIBITORS OF HIV INFECTION	LIU, JIE
60480502	Not Issued	159	06/20/2003	OPTICAL DEVICE	LIU, JIE
60364324	Not Issued	159	03/14/2002	METHODS FOR MAC LEVEL REED-SOLOMON IMPLEMENTATIONS FOR IEEE 802.11E SYSTEMS	LIANG, JIE
60322862	Not Issued	159	09/17/2001	DIELECTRIC FILM MATERIALS	LI, JIE
60262008	Not Issued	159	01/16/2001	PROPOSAL FOR COLLABORATIVE BT AND 802.11B MAC MECHANISMS FOR ENHANCED COEXISTENCE	LIANG, JIE
60244734	Not Issued	159	10/31/2000	ORGANIC BISTABLE DEVICE AND ORGANIC MEMORY CELLS	LIU, JIE
60214300	Not Issued	159	06/26/2000	PEPTIDES OF MAMMALIAN PROTEINS, METHODS, USES	LIU, JIE
60204308	Not Issued	159	05/15/2000	FORMULATIONS FOR ADMINISTERING CALCITONIN	LIU, JIE

				AND PROCESSES FOR PREPARING THE SAME	
60177433	Not Issued	159	01/21/2000	DIGITAL STILL CAMERA SYSTEM AND METHOD	LIANG, JIE
10690446	Not Issued	030	10/21/2003	RECEIVER WITH LOW POWER LISTEN MODE IN A WIRELESS LOCAL AREA NETWORK	LIANG, JIE
10669612	Not Issued	030	09/24/2003	CONFIGURATION OF A DIRECTORY SYSTEM	LIU, JIE
10662083	Not Issued	071	09/15/2003	COMPOUND ELECTRODES FOR ELECTRONIC DEVICES	LIU, JIE
10655301	Not Issued	030	09/05/2003	SYSTEMS AND METHODS FOR DISTRIBUTED GROUP FORMATION AND MAINTENANCE IN GEOGRAPHICALLY BASED NETWORKS	LIU, JIE
10635976	Not Issued	030	08/07/2003	METHOD FOR FORMING AN ARRAY OF SINGLE-WALL CARBON NANOTUBES IN AN ELECTRIC FIELD AND COMPOSITIONS THEREOF	LIU, JIE
10635067	Not Issued	020	08/05/2003	SYSTEM FOR OPERATIONAL COEXISTENCE OF WIRELESS COMMUNICATION TECHNOLOGIES	LIANG, JIE
10634182	Not Issued	030	08/05/2003	NAPHTHALENE DERIVATIVES AS MATRIX METALLOPROTEINASE INHIBITORS	LI, JIE JACK
10634181	Not Issued	071	08/05/2003	FUSED TETRAHYDROPYRIDINE DERIVATIVES AS MATRIX METALLOPROTEINASE INHIBITORS	LI, JIE JACK
10449938	Not Issued	061	05/30/2003	SECTIONAL MOLDING SYSTEM	LIU, JIE
10435712	Not Issued	030	05/08/2003	PREVIEW MODE	LIU, JIE
10417073	6747147	150	04/16/2003	OXO-AZABICYCLIC COMPOUNDS	LI, JIE JACK
10413648	Not Issued	030	04/15/2003	WIRELESS COMMUNICATIONS SYSTEM USING BOTH LICENSED AND UNLICENSED FREQUENCY BANDS	LIANG, JIE
10399586	Not Issued	041	07/08/2003	ORGANIC BISTABLE DEVICE AND ORGANIC MEMORY CELLS	LIU, JIE

Checked

10387738	Not Issued	030	03/13/2003	ROBUST INDICATION OF MAC LEVEL ERROR CORRECTION	LIANG, JIE
10192599	Not Issued	041	07/10/2002	METHODS AND APPARATUS FOR REDUCING PROCESSOR POWER CONSUMPTION	LIANG, JIE
10187928	Not Issued	030	07/02/2002	METHOD AND SYSTEM FOR GROUP TRANSMISSION AND ACKNOWLEDGMENT	LIANG, JIE
10180514	Not Issued	061	06/27/2002	METHOD ENABLING MOBILE TELEPHONE GAME PLAYING CAPABILITY ON WIRELESS NETWORKS	LIN, JIE
10169786	Not Issued	030	07/02/2002	HIGH YIELD VAPOR PHASE DEPOSITION METHOD FOR LARGE SCALE SINGLE WALLED CARBON NANOTUBE PREPARATION	LIU, JIE
10093666	Not Issued	161	03/08/2002	ERASABLE INKS	LI, JIE
10075073	Not Issued	071	02/13/2002	FUSED PYRIMIDINONE MATRIX METALLOPROTEINASE INHIBITORS	LI, JIE JACK
10071032	Not Issued	071	02/08/2002	BICYCLIC PYRIMIDINE MATRIX METALLOPROTEINASE INHIBITORS	LI, JIE JACK
10033470	Not Issued	041	12/28/2001	METHODS FOR PRODUCING COMPOSITES OF SINGLE-WALL CARBON NANOTUBES AND COMPOSITIONS THEREOF	LIU, JIE
10033076	Not Issued	060	12/28/2001	CONTINUOUS FIBER OF SINGLE-WALL CARBON NANOTUBES	LIU, JIE
10033075	Not Issued	092	12/28/2001	METHOD FOR PRODUCING A CATALYST SUPPORT AND COMPOSITIONS THEREOF	LIU, JIE
10033050	Not Issued	061	12/28/2001	ARRAY OF SINGLE-WALL CARBON NANOTUBES	LIU, JIE
10033028	Not Issued	071	12/28/2001	COMPOSITIONS AND ARTICLES OF MANUFACTURE	LIU, JIE
10032932	Not Issued	041	12/28/2001	METHOD FOR FORMING COMPOSITES OF SUB-ARRAYS OF SINGLE-WALL CARBON NANOTUBES	LIU, JIE
09901143	6709252	150	07/10/2001	MOLDING APPARATUS	LIU, JIE

09809885	Not Issued	061	03/16/2001	CHEMICAL DERIVATIZATION OF SINGLE-WALL CARBON NANOTUBES TO FACILITATE SOLVATION THEREOF; AND USE OF DERIVATIZED NANOTUBES TO FORM CATALYST-CONTAINING SEED MATERIALS FOR USE IN MAKING CARBON FIBERS	LIU, JIE
09809865	6827918	150	03/16/2001	CHEMICAL DERIVATIZATION OF SINGLE-WALL CARBON NANOTUBES TO FACILITATE SOLVATION THEREOF; AND USE OF DERIVATIZED NANOTUBES TO FORM CATALYST-CONTAINING SEED MATERIALS FOR USE IN MAKING CARBON FIBERS	LIU, JIE
09760582	6704291	150	01/16/2001	RADIO RESOURCE ALLOCATION METHODS AND APPARATUS	LIN, JIE
09710186	6372407	150	11/10/2000	PHOTOCURABLE AND PHOTOPATTERNABLE HYDROGEL MATRIX BASED ON AZLACTONE COPOLYMERS	LIU, JIE
09632543	Not Issued	071	08/04/2000	DIGITAL STILL CAMERA SYSTEM AND METHOD	LIANG, JIE
09622423	6548499	150	10/20/2000	SUBSTITUTED QUINOXALINE DERIVATIVES AS INTERLEUKIN-8 RECEPTOR ANTAGONISTS	LI, JIE JACK
09586007	6485706	150	06/02/2000	FORMULATIONS COMPRISING DEHYDRATED PARTICLES OF PHARMA-CEUTICAL AGENTS AND PROCESS FOR PREPARING THE SAME	LIU, JIE
09564277	6498116	150	05/04/2000	COATING AND FILLER MATERIALS FOR USE IN LOCALIZED THERMAL PROCESSING OF GLAZED CERAMICS AND OTHER BRITTLE AND LOW THERMAL CONDUCTIVITY MATERIALS	LI, JIE
09550115	6780597	150	04/14/2000	NF-AT DERIVED POLYPEPTIDES THAT BIND CALCINEURIN AND USES THEREOF	LIU, JIE
09526309	6495665	150	03/15/2000	ISOFORMS OF MOUSE	LIU, JIE

				SEROTONIN 5-HT2C RECPTOR	
09517234	Not Issued	120	03/02/2000	IMAGE CODING USING EMBEDDED ZEROTREE PATTERNS AND BITPLANES	LIANG, JIE
09500565	6359057	150	02/10/2000	MODELING DOUGH AND METHOD OF MAKING THE SAME	LI, JIE

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